

FIG. 1

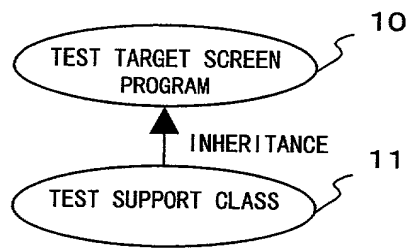


FIG. 2

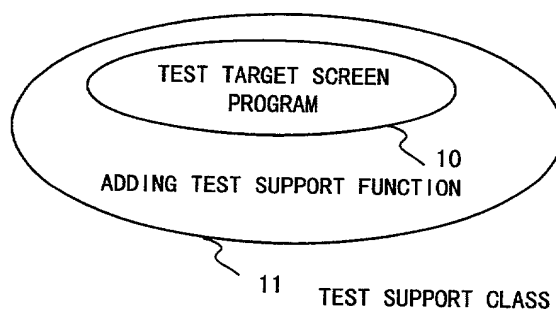


FIG. 3

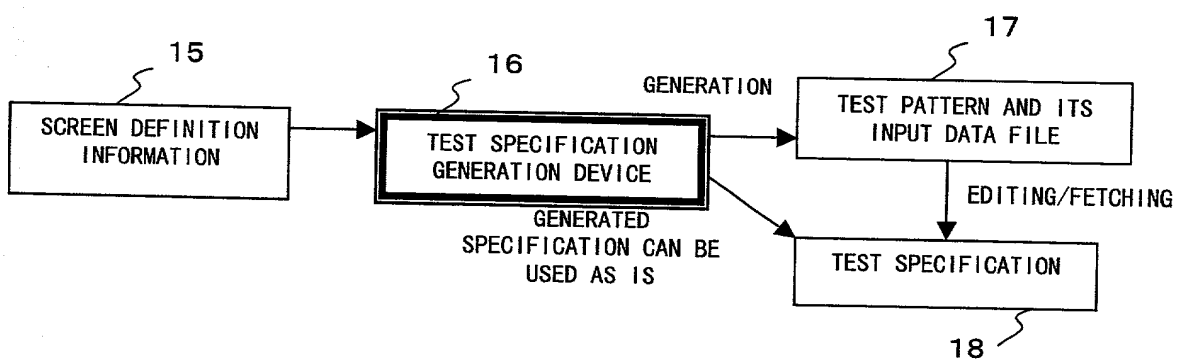


FIG. 4

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graph LR
    15[15: SCREEN DEFINITION INFORMATION] --> 20[20: TEST SUPPORT CLASS GENERATION DEVICE]
    20 -- GENERATION --> 21[21: TEST SUPPORT CLASS]
  
```

F I G. 5

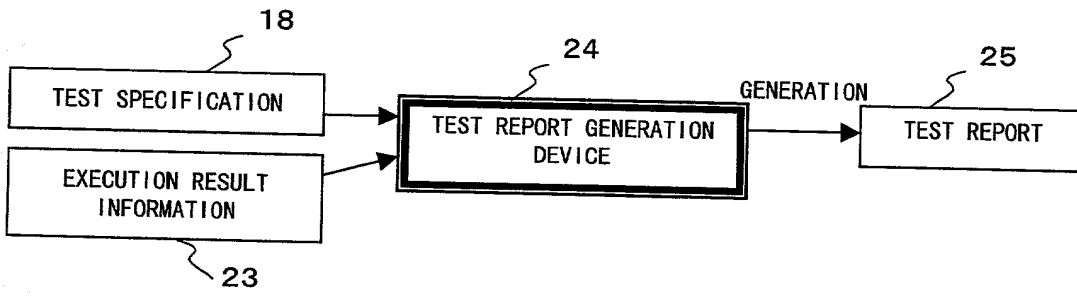
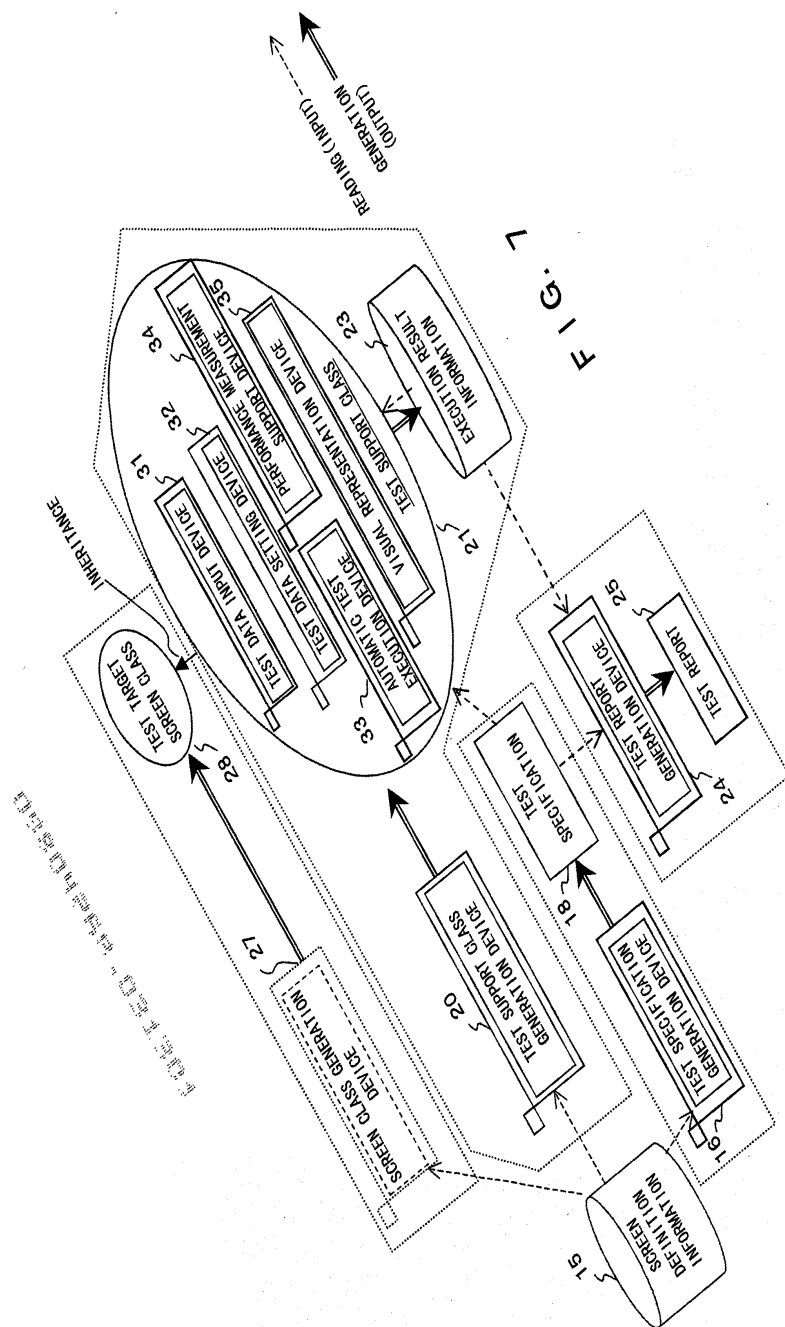
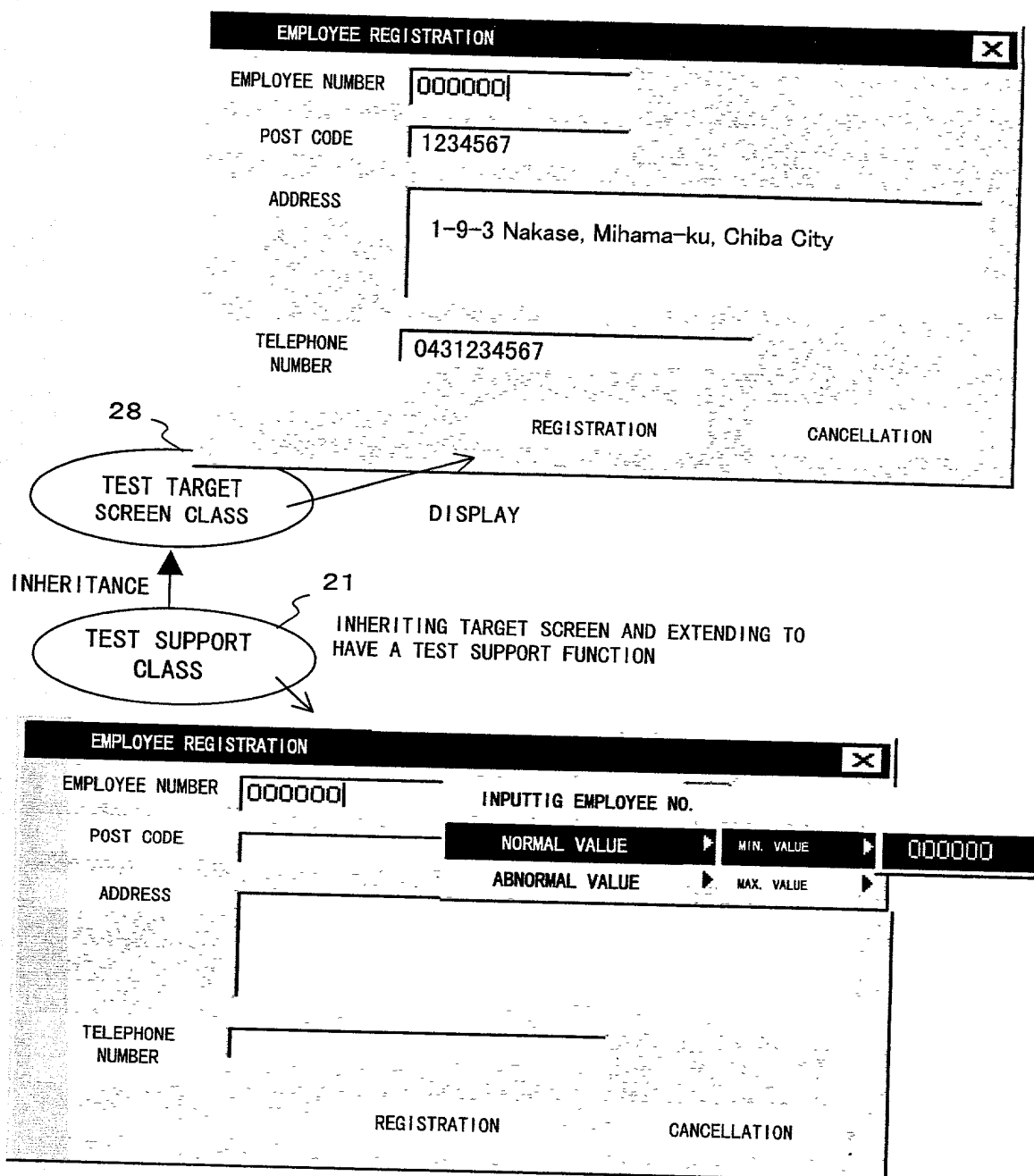


FIG. 6





F I G. 8

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EMPLOYEE REGISTRATION SCREEN DEFINITION

TEST SPECIFICATION GENERATION DEVICE

NAME OF SCREEN : EMPLOYEE REGISTRATION
NAME OF SAMPLE SCREEN : DB REGISTRATION TYPE / DB TorokuMaster
SCREEN SIZE : 600 x 400

NAME OF ITEM	NAME OF VARIABLE	TYPE	NUMBER OF DIGITS	MINIMUM VALUE	MAXIMUM VALUE
EMPLOYEE NUMBER	jyugyoInBangou	NUMERAL	6	000000	999999
POST CODE	yubinBangou	NUMERAL	7	0010001	9999999
ADDRESS	jyusyo	JAPANESE/ ALPHANU- MERIC	80		
TELEPHONE NUMBER	denwaBangou	NUMERAL	10		
REGISTRATION	torokuButton	BUTTON			
CANCELLATION	cancelButton	BUTTON			

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-1001-01	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-1001-02		MAXIMUM VALUE	999999		
TEST-1001-03		MINIMUM VALUE-1	-1		
TEST-1001-04		MAXIMUM VALUE+1	1000000		
TEST-1001-05		INPUTTING ALPHABET ABCDE			
TEST-1001-06		JAPANESE	あ, い, う		
TEST-1002-01	POST CODE		0010001		
TEST-1002-02			9999999		
...		

EMPLOYEE REGISTRATION

EMPLOYEE NUMBER [000000]

POST CODE []

ADDRESS []

TELEPHONE NUMBER []

REGISTRATION

CANCELLATION

GENERATING SCREEN

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (IN A SCREEN UNIT)

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-G001	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-G001	POST CODE	NORMAL	1234567		
TEST-G001	ADDRESS	NORMAL	Mihama-ku, Chiba-City		
TEST-G001	TELEPHONE NUMBER	NORMAL	0431234567		
TEST-G002	EMPLOYEE NUMBER	MAXIMUM VALUE	999999		
TEST-G002	POST CODE	NORMAL	1234567		
TEST-G002	ADDRESS	NORMAL	Mihama-ku, Chiba-City		
TEST-G002	TELEPHONE NUMBER	NORMAL	0431234567		
...		

FIG. 9

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-1001-01	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-1001-02		MAXIMUM VALUE	999999		
TEST-1001-03		MINIMUM VALUE-1	-1		
TEST-1001-04		MAXIMUM VALUE+1	1000000		
TEST-1001-05		INPUTTING ALPHABET	ABCDE		
TEST-1001-06		JAPANESE	あ, い, う		
TEST-1002-01	POST CODE				
TEST-1002-02					

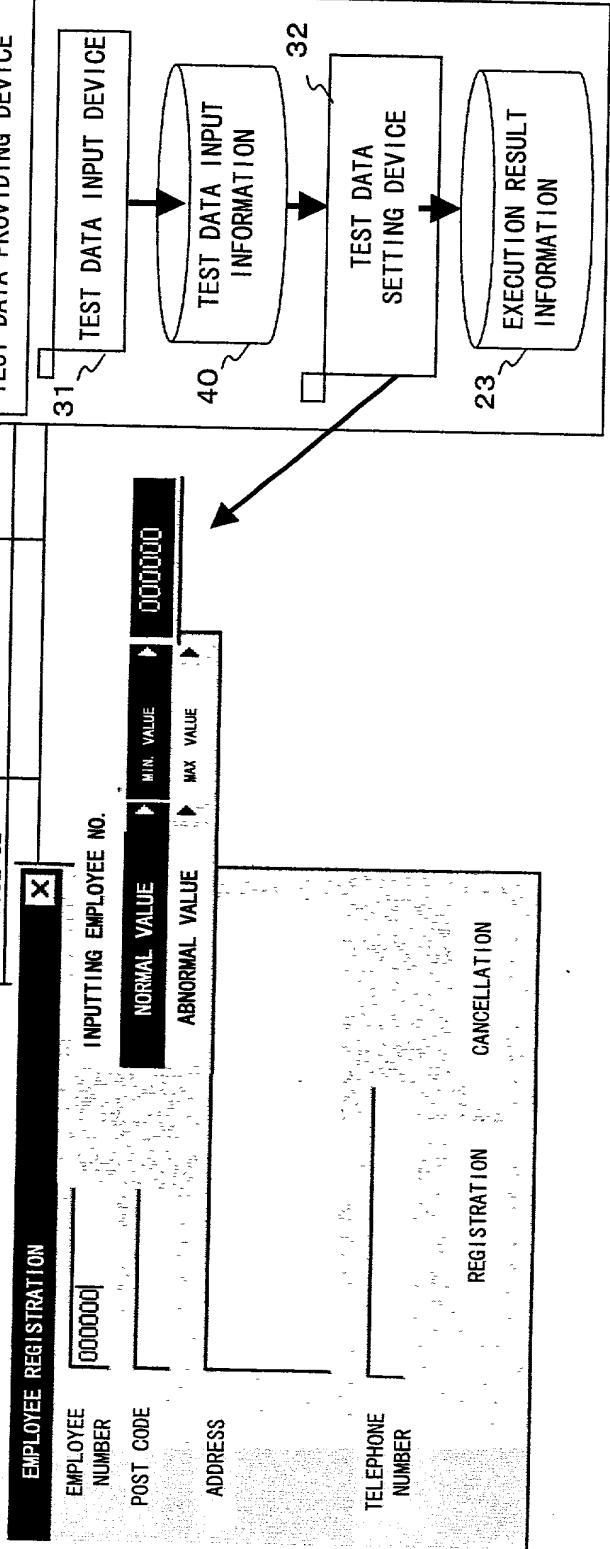


FIG. 10

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-G001	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-G001	POST CODE	NORMAL	1234567		
TEST-G001	ADDRESS	NORMAL	Mihama-ku, Chiba-City		
TEST-G001	TELEPHONE NUMBER	NORMAL	0431234567		
TEST-G002	EMPLOYEE NUMBER	MAXIMUM VALUE	999999		
TEST-G002	POST CODE	NORMAL	Mihama-ku, Chiba-City		
TEST-G002	ADDRESS	NORMAL	0431234567		
TEST-G002	TELEPHONE NUMBER	NORMAL	0431234567		
...		

EMPLOYEE REGISTRATION

000000

1234567

1-9-3, Nakase, Mihama-ku, Chiba-City

0431234567

REGISTRATION

CANCELLATION

- TEST-G001
- TEST-G002
- TEST-G003
- TEST-G004
- TEST-G005
- TEST-G006
- TEST-G007

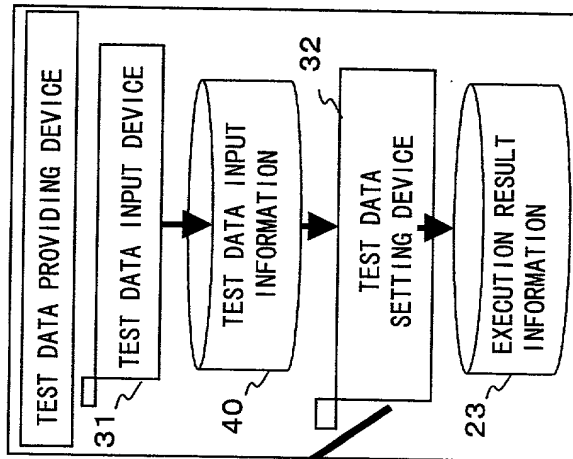


FIG. 11

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)					
NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-G001	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-G001	POST CODE	NORMAL	1234567		
TEST-G001	ADDRESS	NORMAL	Mihama-ku, Chiba-City		
TEST-G002	TELEPHONE NUMBER	NORMAL	0431234567		
TEST-G002	POST CODE	MAXIMUM VALUE	999999		
TEST-G002	ADDRESS	NORMAL	1234567		
TEST-G002	TELEPHONE NUMBER	NORMAL			

EMPLOYEE REGISTRATION

EMPLOYEE NUMBER

000000

POST CODE

1234567

ADDRESS

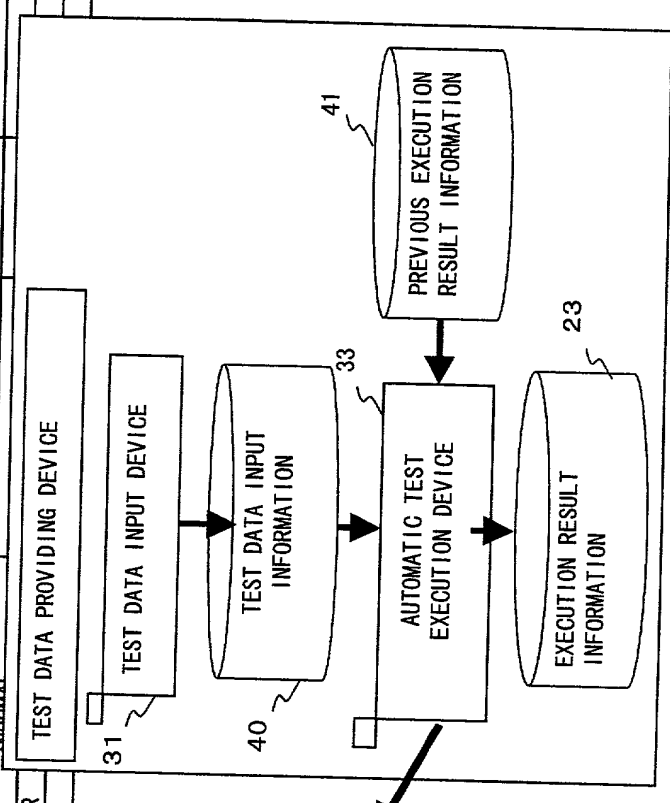
1-9-3, Nakase, Mihama-ku, Chiba-City

TELEPHONE NUMBER

0431234567

REGISTRATION

STATUS: REGISTERED



AUTOMATIC TEST EXECUTION

TEST-G001

TEST-G002

TEST-G003

TEST-G004

TEST-G005

TEST-G006

TEST-G007

SUSPENDING

RESULT OF TEST-T003 IS DIFFERENT FROM PREVIOUS RESULT. "REGISTRATION"

FIG. 12

EMPLOYEE REGISTRATION

000000

1234567

1-9-3, Nakase, Mihama-ku, Chiba-City

0431234567

STATUS: REGISTERED

REGISTRATION

CANCELLATION

INPUT FIELD

- WHEN ERROR PROCESS IS ENTERED, BACKGROUND COLOR OF INPUT FIELD TURNS YELLOW.
- WHEN NORMAL PROCESS IS ENTERED, BACKGROUND COLOR OF INPUT FIELD TURNS BLUE.

BUTTON

- WHEN IT IS ONCE PRESSED, BACKGROUND COLOR OF THE BUTTON TURNS BLUE.

FIG. 13

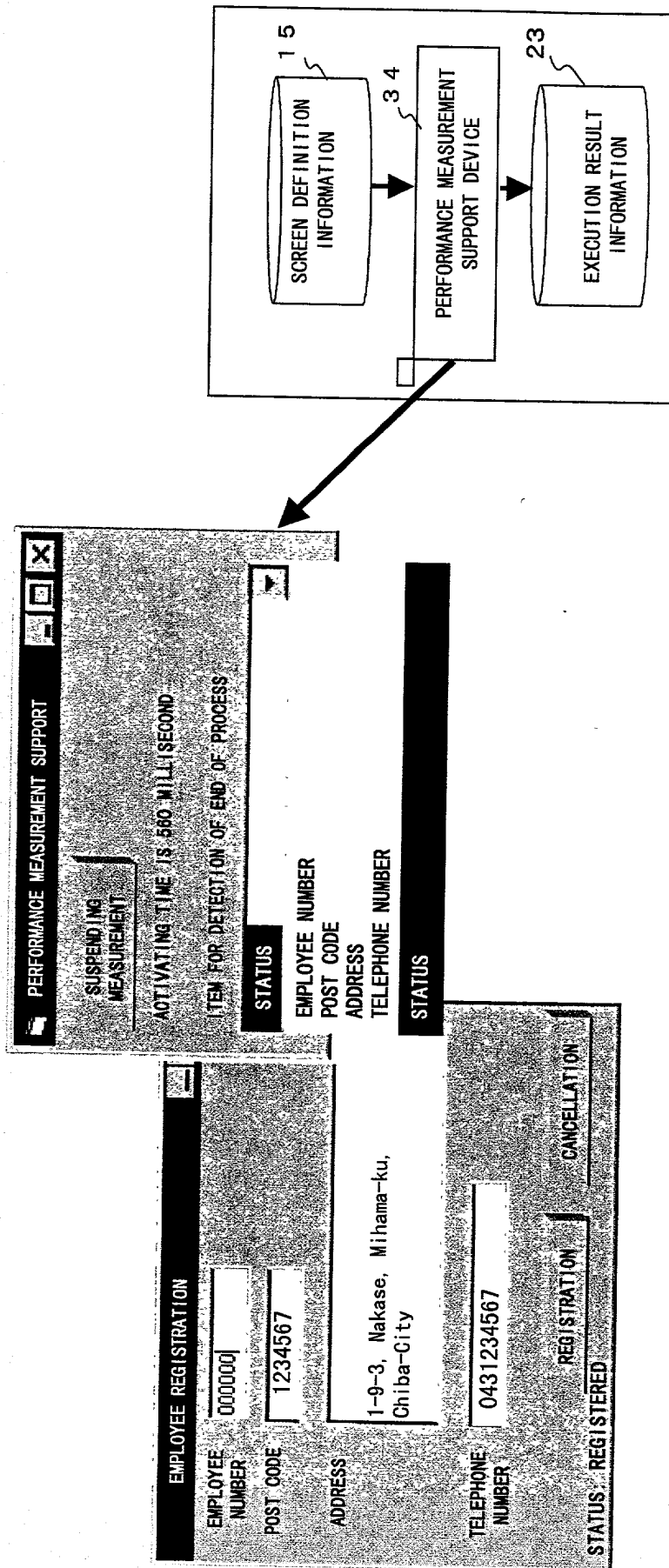


FIG. 14

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-1001-01	EMPLOYEE NUMBER	MINIMUM VALUE	000000	O	00/03/03
TEST-1001-02		MAXIMUM VALUE	999999	O	00/03/03
TEST-1001-03		MINIMUM VALUE-1	-1	x	00/03/03
TEST-1001-04		MAXIMUM VALUE+1	1000000	x	
TEST-1001-05		INPUTTING ALPHABET ABCDE		x	
TEST-1001-06		JAPANESE あ,い,う		x	
TEST-1001-07				O	00/03/04
TEST-1001-08				O	00/03/04

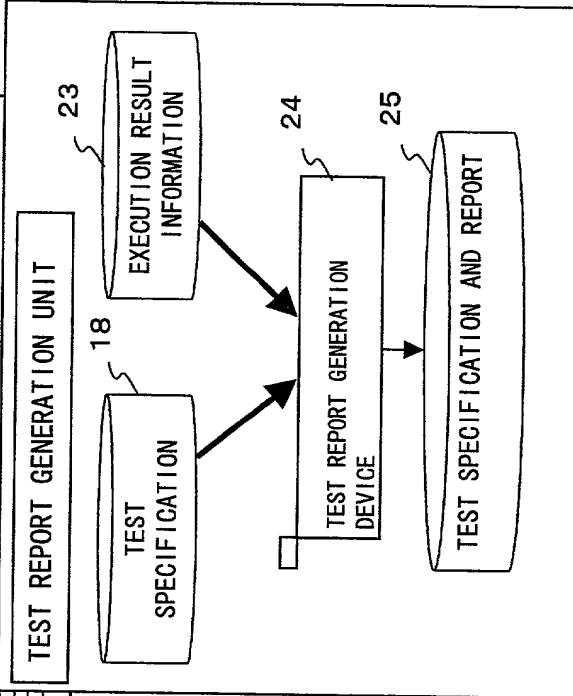


FIG. 15

**EMPLOYEE REGISTRATION
SCREEN DEFINITION**

NAME OF SCREEN : EMPLOYEE REGISTRATION JyugyojinToroku
SAMPLE NAME OF SCREEN : DB REGISTRATION TYPE DBTorokuMaster

NAME OF ITEM	NAME OF VARIABLE	TYPE	NUMBER OF DIGITS	MINIMUM VALUE	MAXIMUM VALUE
EMPLOYEE NUMBER	JyugyoInBangou	NUMERAL	6	000000	999999
POST CODE	yubiBangou	NUMERAL	7		
ADDRESS	Jyusyo	JAPANESE/ALPHANUMERIC	80	0010001	9999999
TELEPHONE NUMBER	denwaBangou	NUMERAL	10		
REGISTRATION	torokuButton	BUTTON			
CANCELLATION	cancelButton	BUTTON			

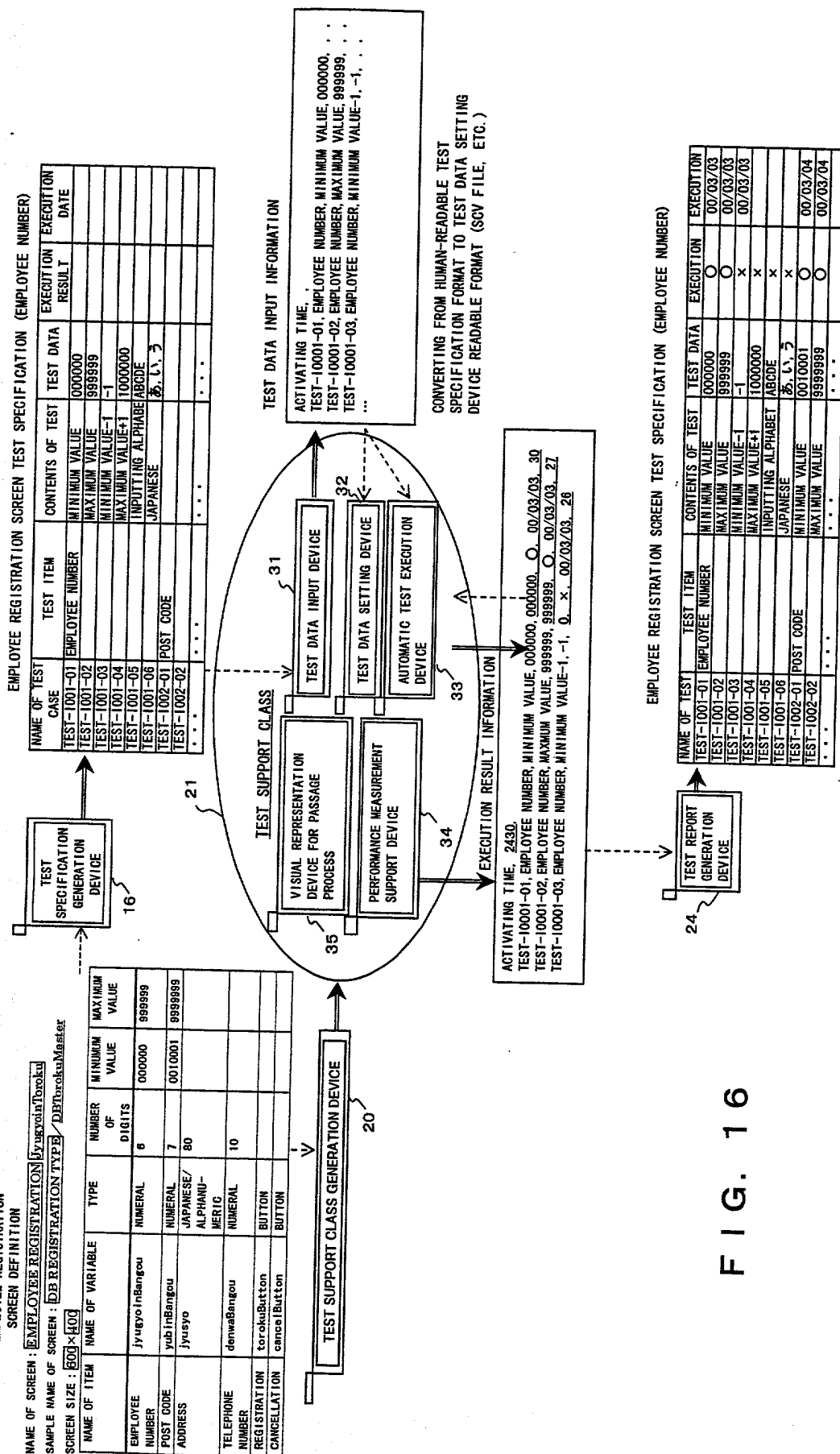


FIG. 16

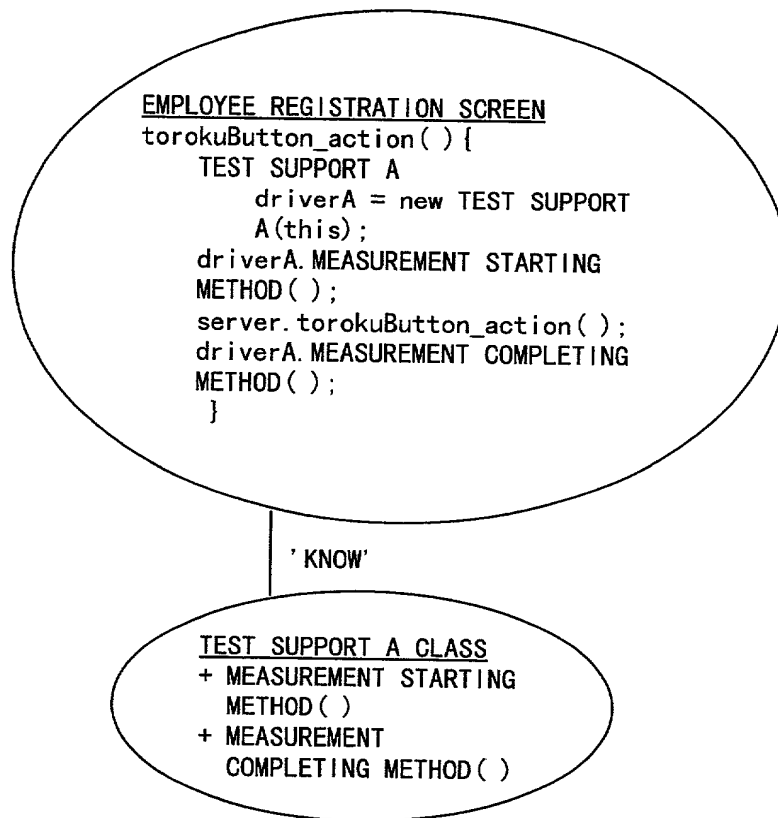


FIG. 17

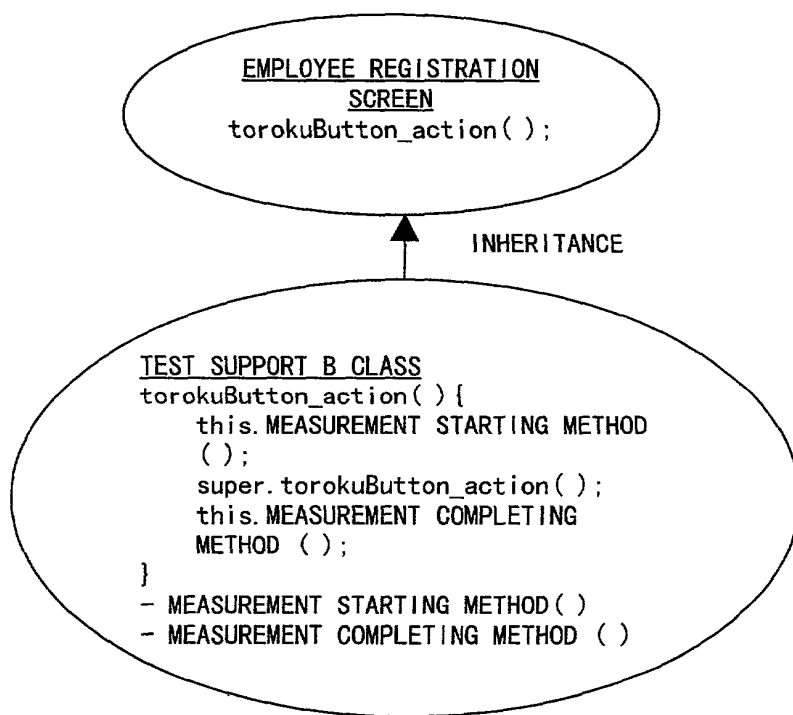


FIG. 18

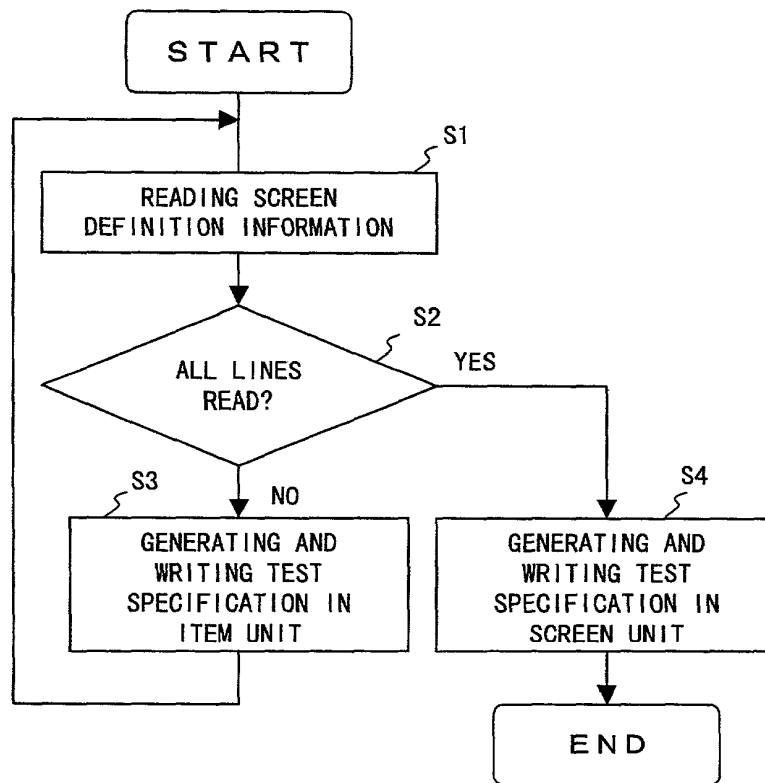


FIG. 19

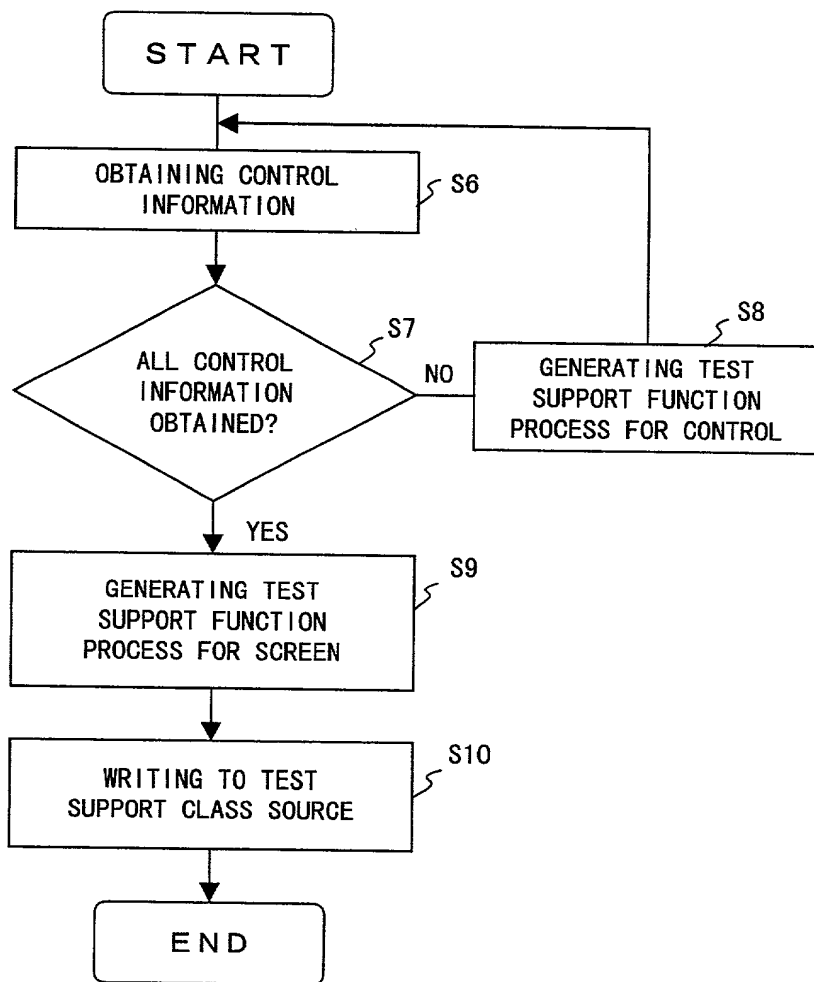


FIG. 20

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)

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NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	TEST RESULT
TEST 001	NORMAL VALUE	MINIMUM VALUE	000000	
		MAXIMUM VALUE	999999	
	ABNORMAL VALUE	MINIMUM VALUE-1	-1	
		MAXIMUM VALUE+1	1000000	
		INPUTTING ALPHABET	ABCDE	
		JAPANESE	あ, い, う	

TEST DATA INPUT DEVICE

TEST DATA INPUT INFORMATION

SCREEN	INPUT	FIRST LEVEL DISPLAY	SECOND LEVEL DISPLAY	TEST VALUE
EMP.	EMPLOYEE NUM.	NORMAL VALUE	MINIMUM VALUE	000000
EMP.	EMPLOYEE NUM.	NORMAL VALUE	MAXIMUM VALUE	999999
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	MINIMUM VALUE-1	-1
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	MAXIMUM VALUE+1	1000000
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	ALPHABET	ABCDE
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	JAPANESE	あ, い, う

FIG. 21

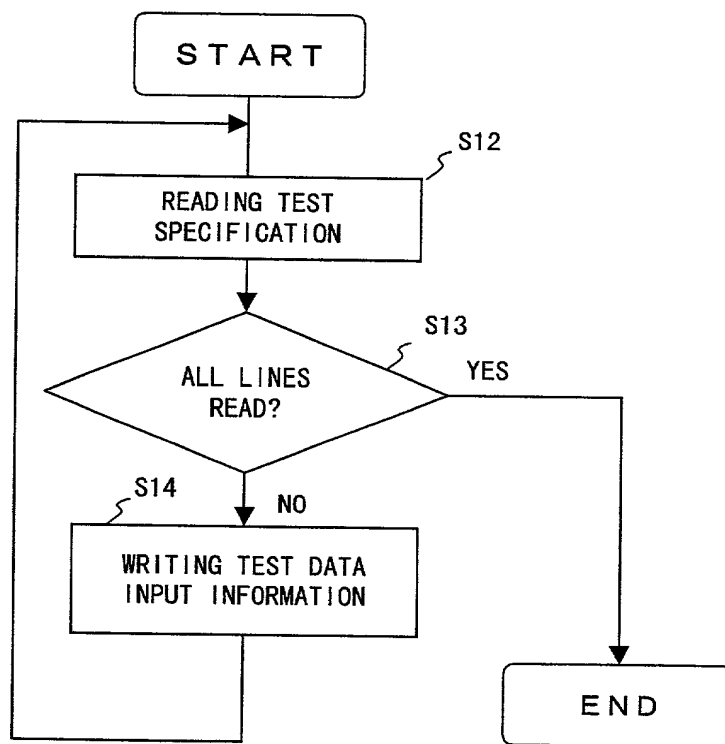
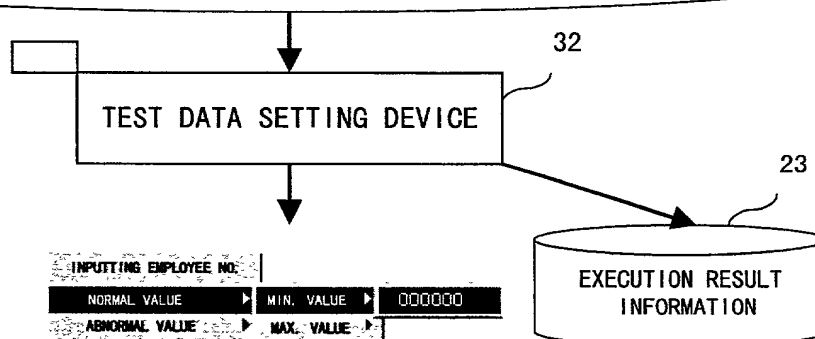


FIG. 22

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TEST DATA INPUT INFORMATION				
SCREEN	INPUT	FIRST LEVEL DISPLAY	SECOND LEVEL DISPLAY	TEST VALUE
EMP.	EMPLOYEE NUM.	NORMAL VALUE	MINIMUM VALUE	000000
EMP.	EMPLOYEE NUM.	NORMAL VALUE	MAXIMUM VALUE	999999
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	MINIMUM VALUE-1	-1
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	MAXIMUM VALUE+1	1000000
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	ALPHABET	ABCDE
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	JAPANESE	あ,い,う



EXAMPLE OF EXECUTION RESULT INFORMATION
 DISPLAY VALUE FOR INPUT DATA, EXECUTION DETERMINATION RESULT (○/×) ,
 EXECUTION DATE AND TIME, ETC. ARE ADDED

ACTIVATING TIME
 TEST-10001-01, EMPLOYEE NUMBER, MINIMUM VALUE, 000000, 000000, ○, 00/03/03,
 TEST-10001-02, EMPLOYEE NUMBER, MAXIMUM VALUE, 999999, 999999, ○, 00/03/03,
 TEST-10001-03, EMPLOYEE NUMBER, MINIMUM VALUE-1, -1, -0, ×, 00/03/03,
 ...

FIG. 23

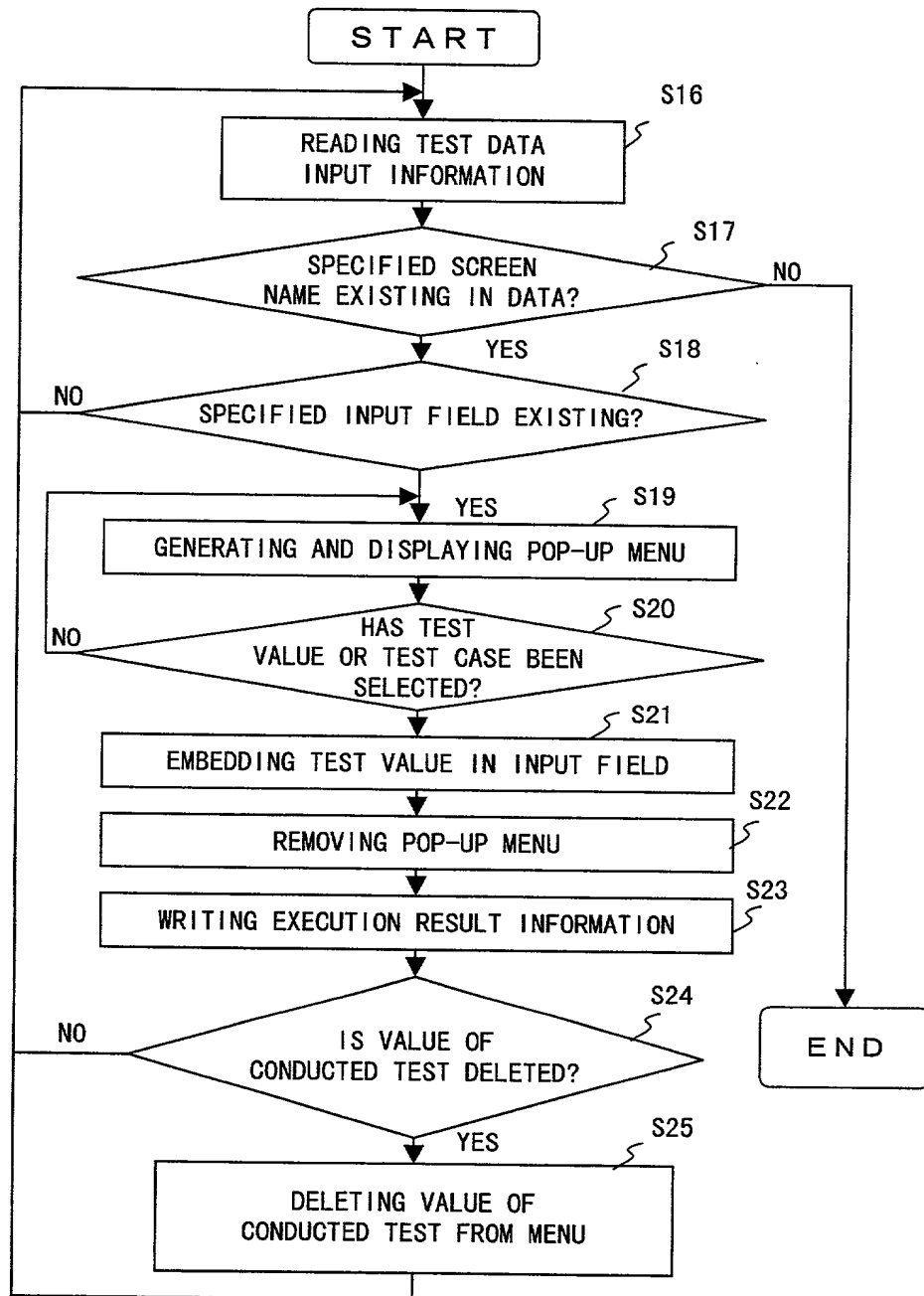
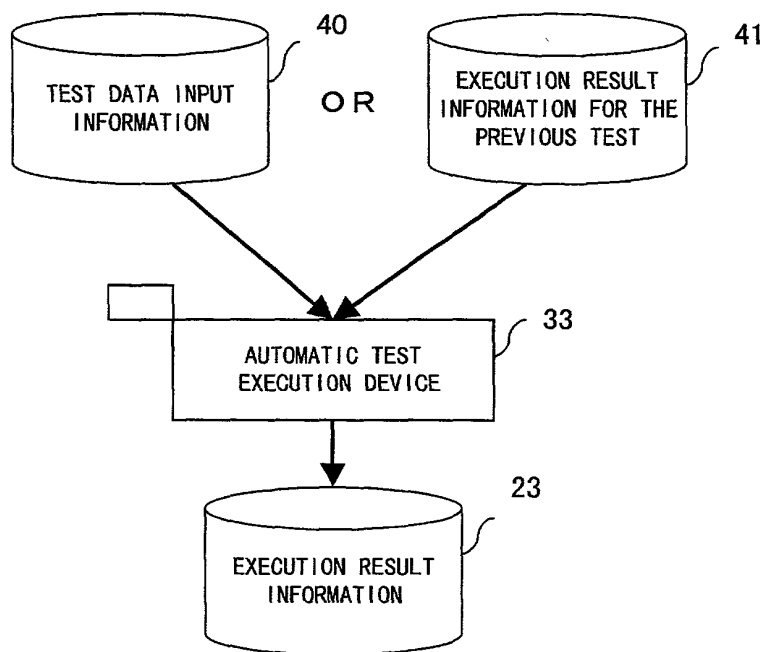


FIG. 24



EXAMPLE OF EXECUTION RESULT INFORMATION
 SINCE TEST IS AUTOMATICALLY CONDUCTED, NO EXECUTION RESULT DETERMINATION
 (O/×) IS OUTPUT BY OPERATOR

ACTIVATING TIME TEST-10001-01, EMPLOYEE NUMBER, MINIMUM VALUE, 000000, 000000, 00/03/03, TEST-10001-02, EMPLOYEE NUMBER, MAXIMUM VALUE, 999999, 999999, 00/03/03, TEST-10001-03, EMPLOYEE NUMBER, MINIMUM VALUE-1, -1, -0, 00/03/03, ...
--

FIG. 25

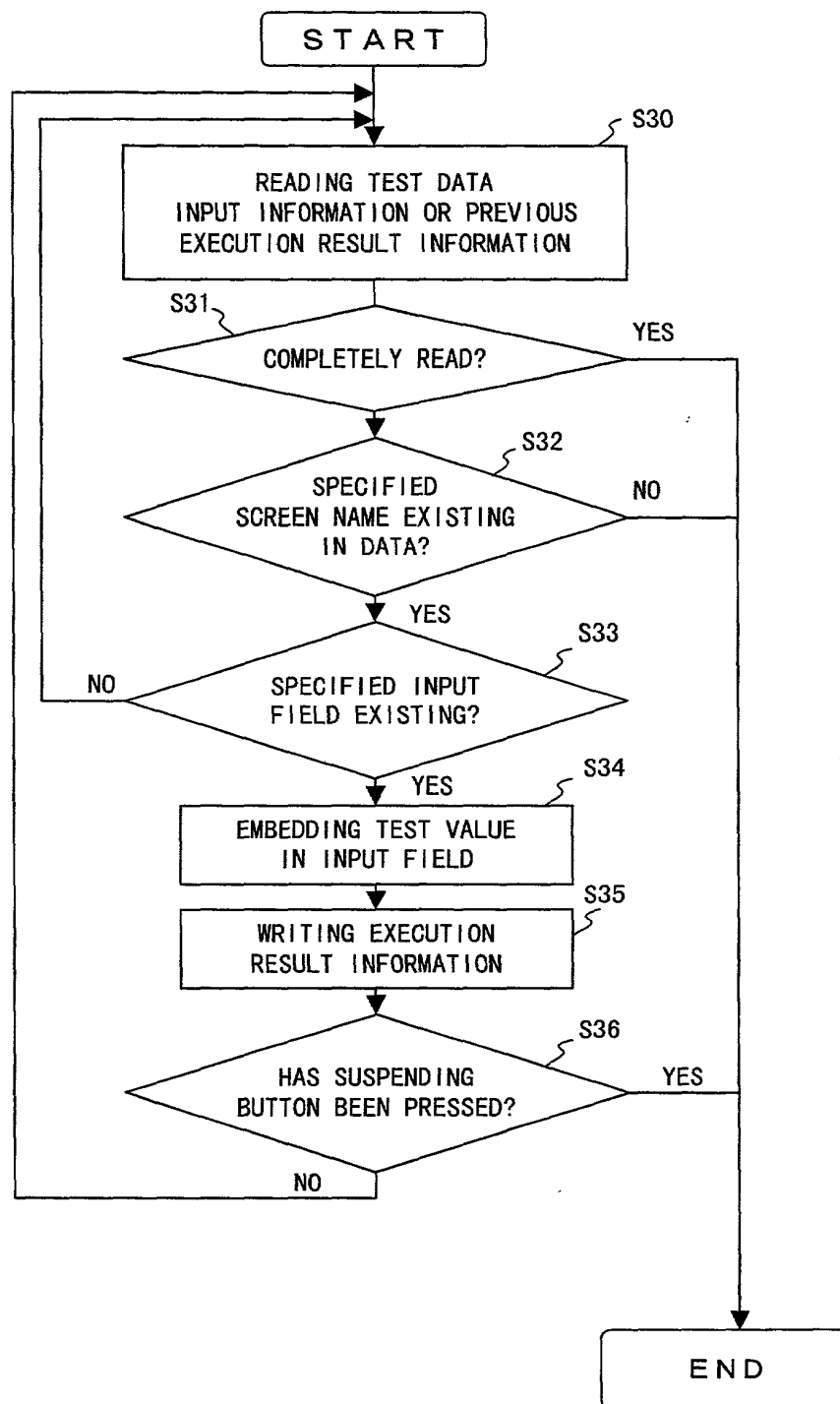
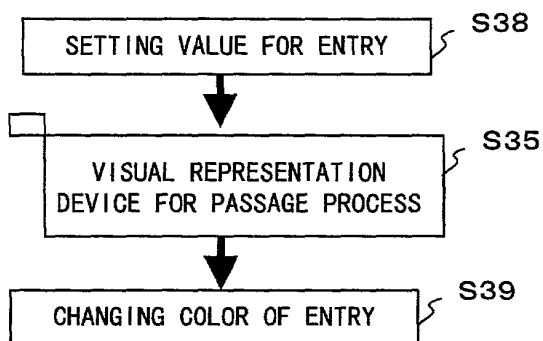


FIG. 26



EXAMPLE) REPRESENTING BACKGROUND
IN BLUE AND CHARACTERS
IN WHITE FOR NORMAL PROCESS

EXAMPLE) REPRESENTING BACKGROUND
IN YELLOW AND CHARACTERS
IN BLACK FOR ABNORMAL

EMPLOYEE REGISTRATION		EMPLOYEE REGISTRATION	
EMPLOYEE NUMBER	100000	EMPLOYEE NUMBER	9999999
POST CODE	1234567	POST CODE	1234567
ADDRESS	1-9-3, Nakase, Mihama	ADDRESS	1-9-3, Nakase, Mihama-ku, Chiba-City
TELEPHONE NUMBER	0431234567	TELEPHONE NUMBER	0431234567
REGISTRATION		REGISTRATION CANCELLATION	
STATUS: REGISTERED		STATUS: EMPLOYEE NUMBER ERROR	

FIG. 27

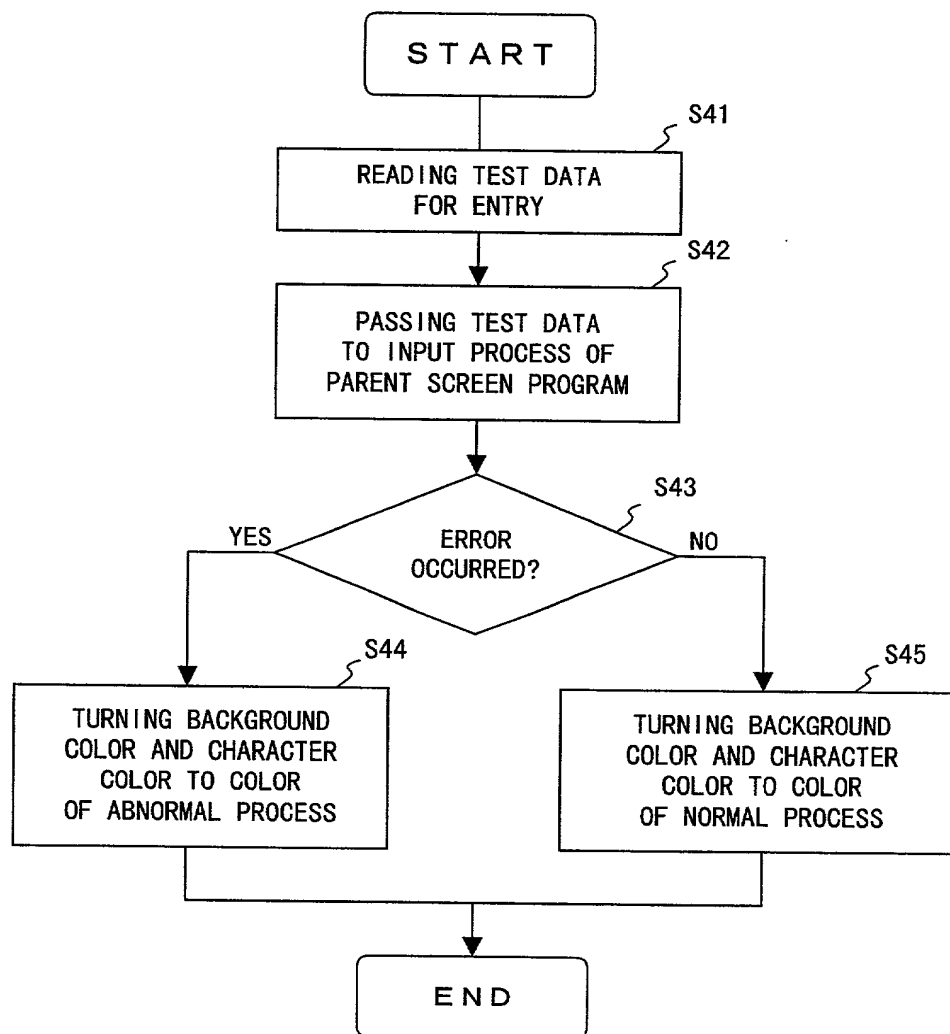


FIG. 28

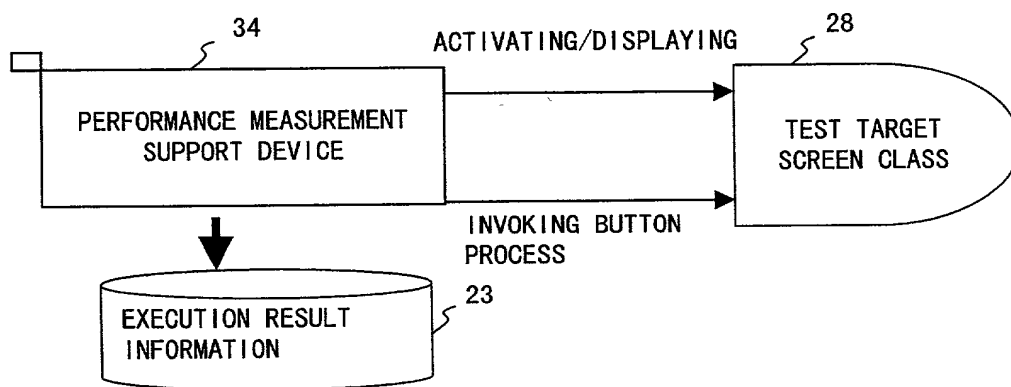


FIG. 29

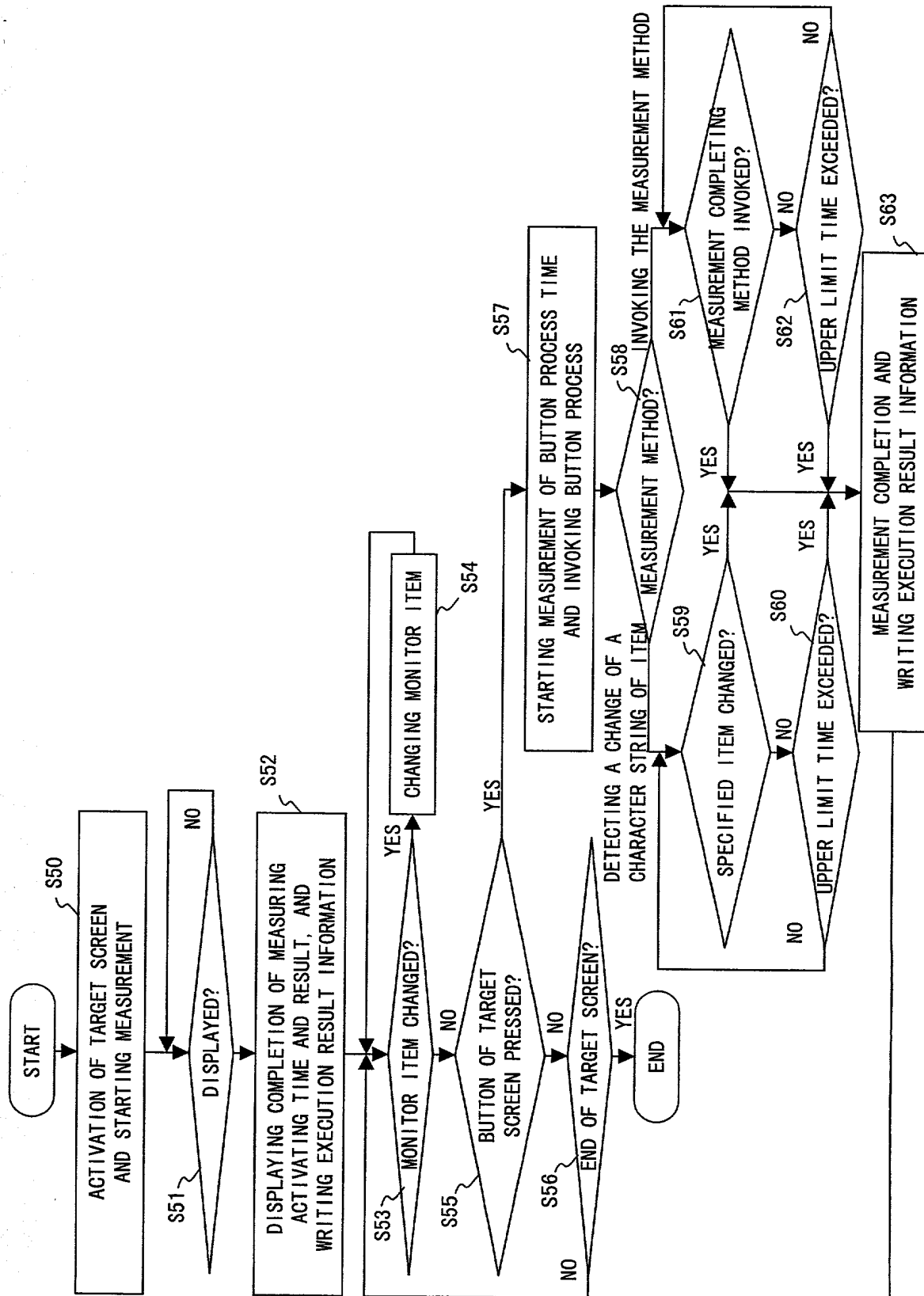


FIG. 30

EMPLOYEE REGISTRATION

EMPLOYEE NUMBER 000000

POST CODE 1234567

ADDRESS 1-9-3, Nakase, Mihama-ku, Chiba-City

TELEPHONE NUMBER 0431234567

REGISTRATION CANCELLATION

STATUS: REGISTERED

CUSTOMIZING TEST SUPPORT FUNCTION

CHANGING FUNCTION MEASURING METHOD
SETTING MEASUREMENT UPPER LIMIT TIME
CHANGING MONITOR ITEM

PERFORMANCE MEASUREMENT SUPPORT

SUSPENDING MEASUREMENT

ACTIVATING TIME IS 560 MILLISECOND

ITEM FOR DETECTION OF PROCESS TERMINATION

STATUS

EMPLOYEE NUMBER

POST CODE

ADDRESS

TELEPHONE NUMBER

STATUS

FIG. 31

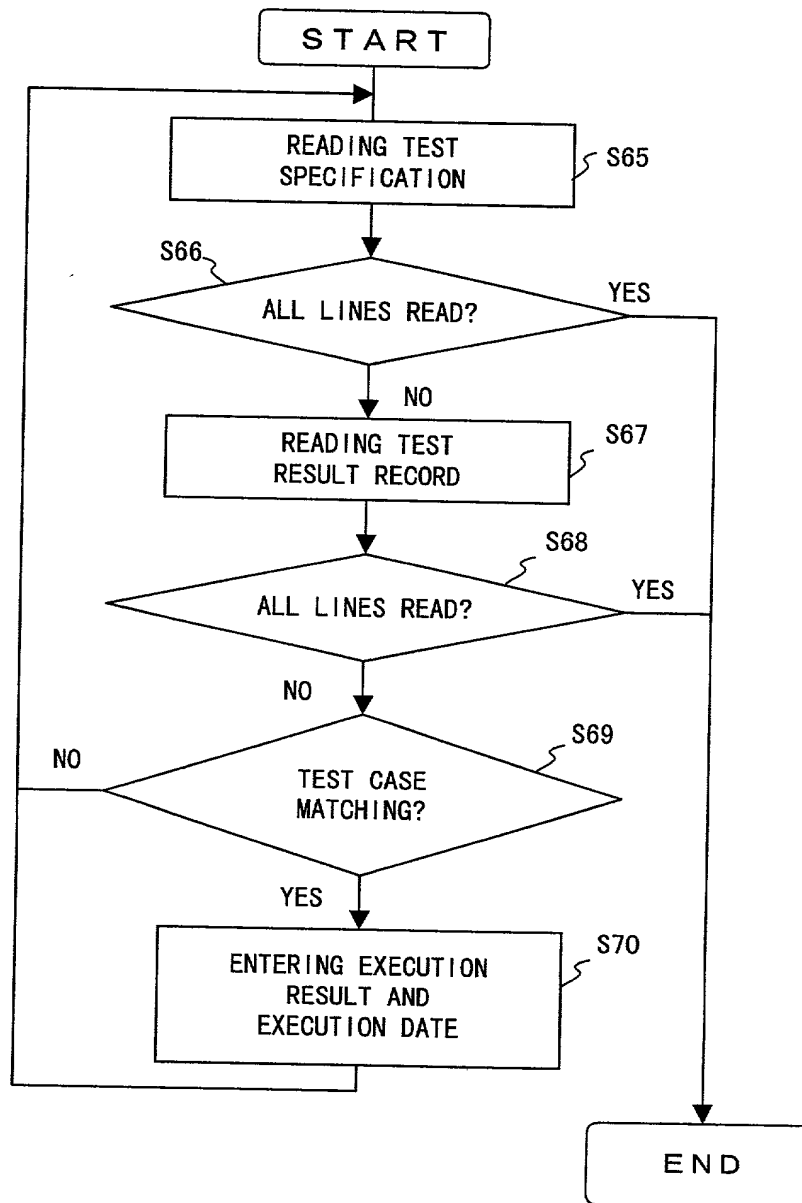
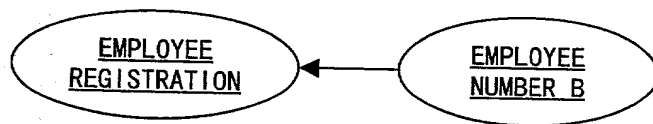


FIG. 32



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EMPLOYEE REGISTRATION		X
EMPLOYEE NUMBER	000000	
POST CODE	1234567	
ADDRESS	1-9-3, Nakase, Mihama-ku, Chiba-City	
TELEPHONE NUMBER	0431234567	
REGISTRATION		CANCELLATION

EMPLOYEE
REGISTRATION

FIG. 34

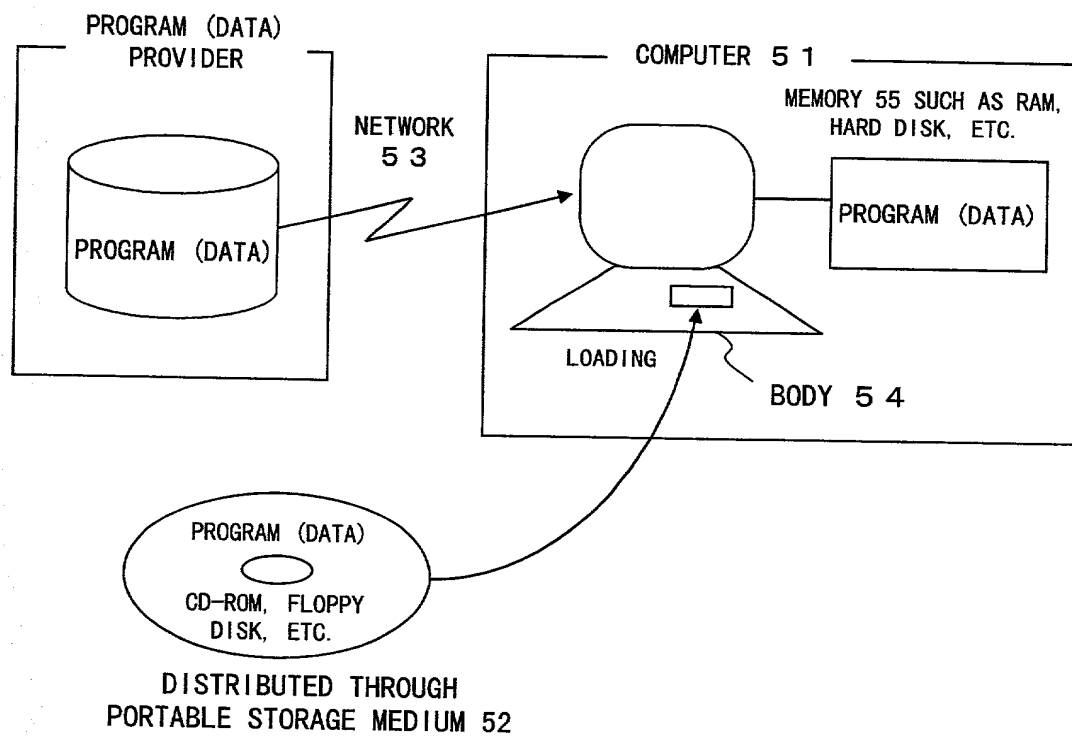


FIG. 35